

## CLAIMS

1. A soybean meal comprising at least 58% protein on a dry weight basis, wherein no exogenous source of protein has been added, and wherein said meal is generated from a soybean capable of commercial yields.
- 5 2. The soybean meal of claim 1 wherein the soybean has a protein content of at least 45% on a dry weight basis.
3. The soybean meal of claim 1 wherein the soybean has an oil plus protein content of at least 64% on a dry weight basis.
4. The soybean meal of claim 1, wherein the meal comprises at least 60% protein on a dry weight basis.
- 10 5. The soybean meal of claim 1, wherein the meal comprises at least 62% protein on a dry weight basis.
6. A soybean meal resulting from the processing of a high protein soybean variety, said soybean variety having a mean whole seed total protein content of greater than about 45% on a dry weight basis, and wherein the soybean variety is capable of commercial yields.
- 15 7. The soybean meal of claim 1, wherein the soybean is transgenic.
8. The soybean meal of claim 7, wherein the transgenic soybean comprises an exogenous gene conferring herbicide resistance.
- 20 9. The soybean meal of claim 8, wherein the transgenic soybean is resistant to glyphosate herbicide.
10. A feed containing the soybean meal of claim 1.
11. A protein isolate prepared from the soybean meal of claim 1.
12. A protein concentrate prepared from the soybean meal of claim 1.
- 25 13. A method of feeding an animal comprising incorporating into a feed ration a soybean meal comprising at least 58% protein on a dry weight basis, wherein no exogenous source of protein has been added, and wherein said meal is generated from a soybean capable of commercial yields.
14. The method of claim 13, wherein the meal comprises at least 60% protein on a dry weight basis.
- 30 15. The method of claim 13, wherein the meal comprises at least 62% protein on a dry weight basis.

16. The method of claim 13, wherein the animal is selected from the group consisting of poultry, swine, bovine, and companion animal.
17. The method of claim 13, wherein the animal is poultry.
18. A soybean meal comprising at least 58% protein on a dry weight basis, wherein no  
5 exogenous source of protein has been added, and wherein said meal is generated from a soybean variety comprising ATCC deposit number PTA-5764.
19. A method of processing a soybean comprising providing a soybean comprising a protein content of at least 45% on a dry weight basis, and wherein the soybean is capable of commercial yields, processing the soybean to produce an oil fraction and a meal  
10 fraction.